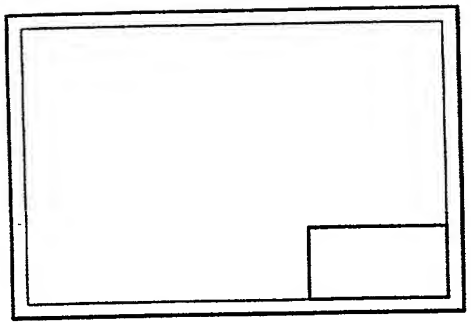


FIG.1(a)

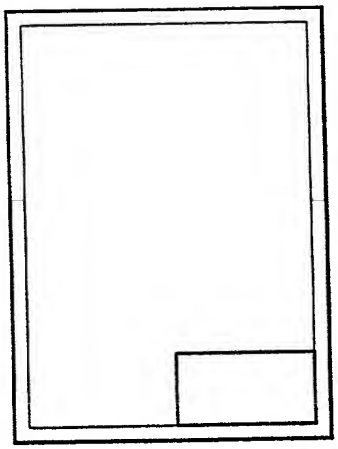


FIG.1(b)

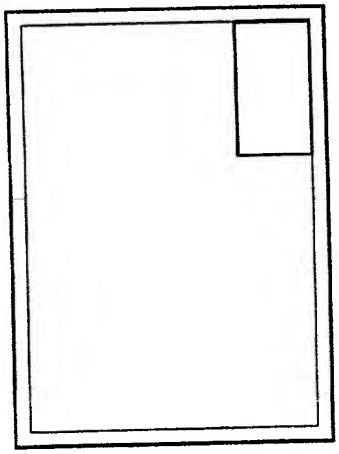


FIG.1(c)

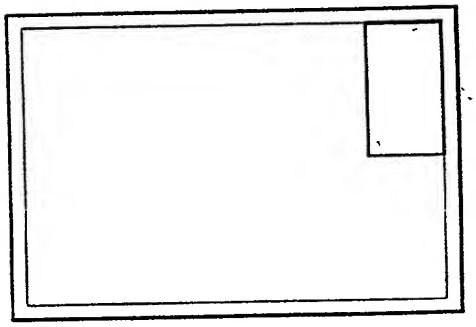


FIG.1(d)

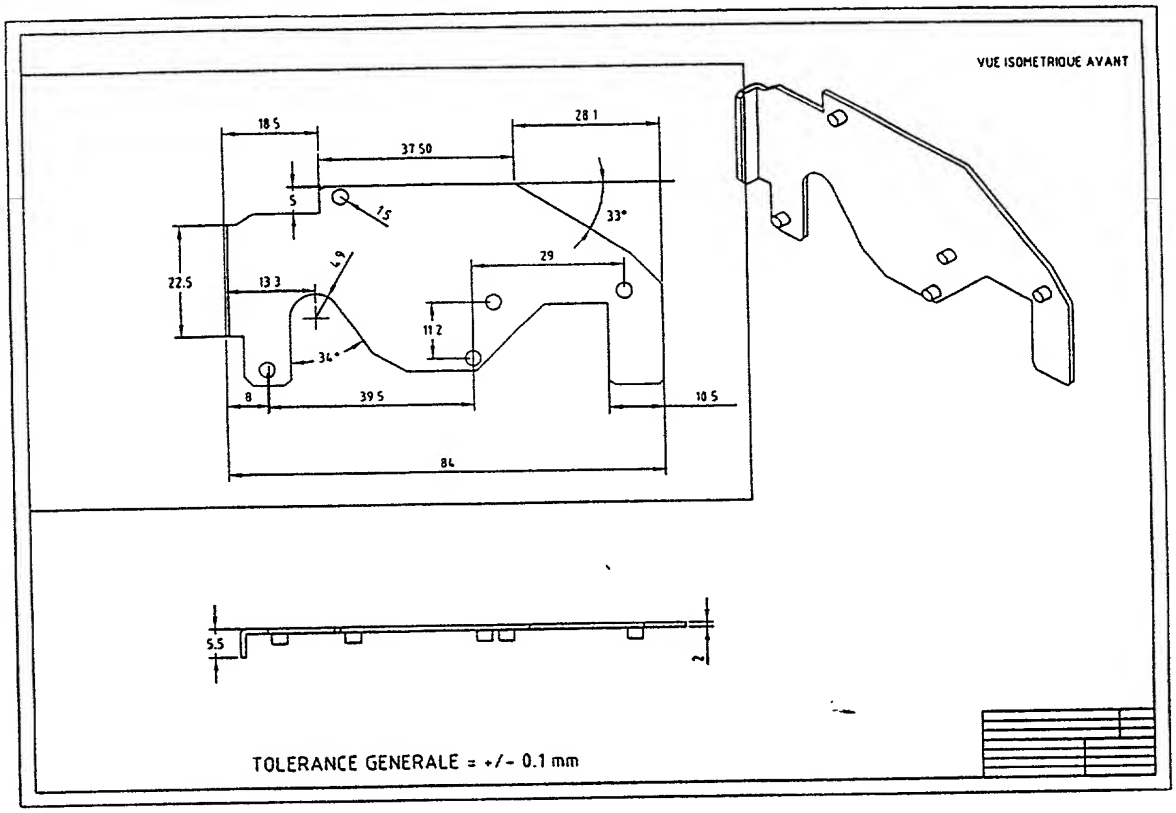

VUE ISOMETRIQUE AVANT
18 5
37 50
28 1
5
15
33°
22.5
13 3
4.9
29
11 2
34°
8
39 5
10 5
84
5.5
2
TOLERANCE GENERALE = +/- 0.1 mm

FIG.2

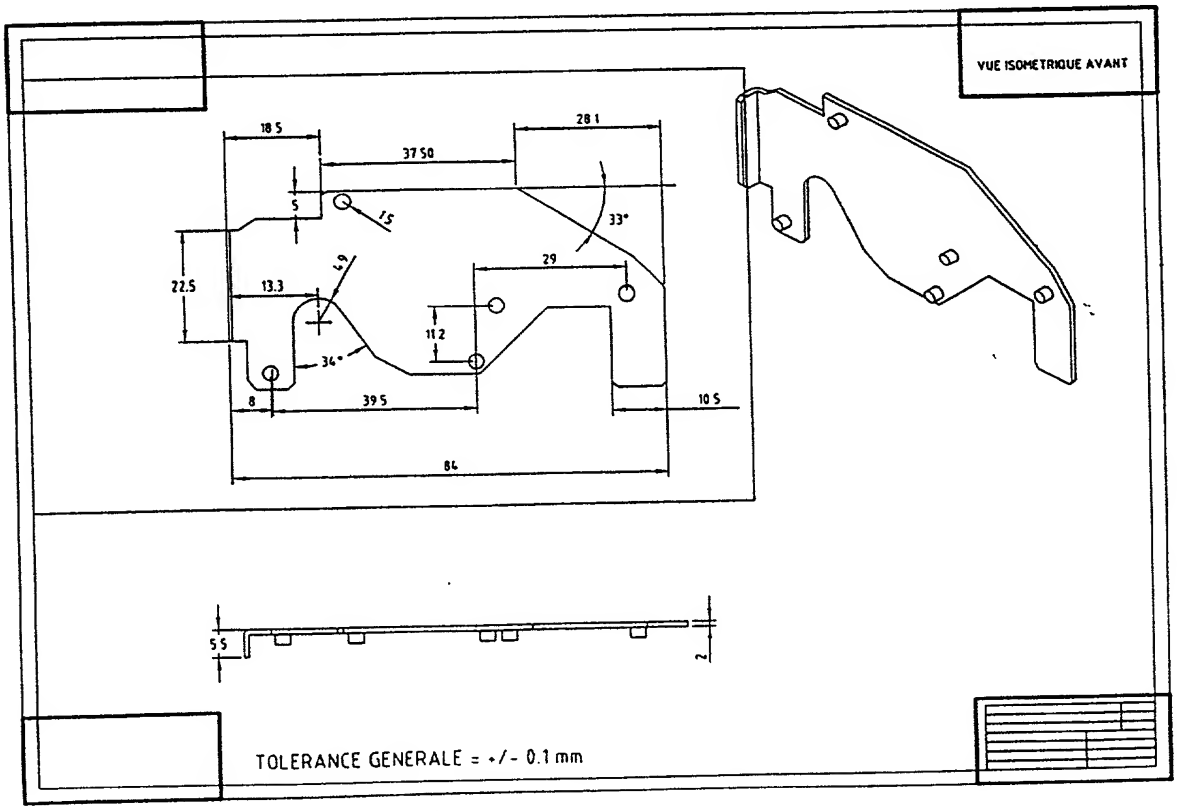

VUE ISOMETRIQUE AVANT
18 5
37 50
28 1
5
15
33°
22.5
13.3
4.9
29
11.2
34°
8
39 5
10 5
84
5 5
2
TOLERANCE GENERALE = +/- 0.1 mm

FIG.3

FIG. 4(a)

Top-left corner profile

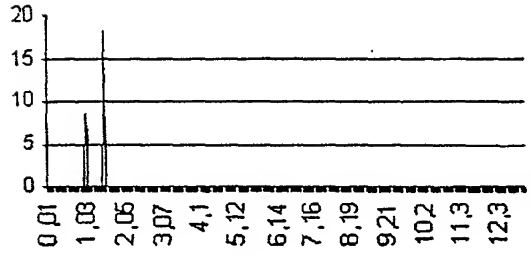


FIG 4(b)

Top-right corner profile

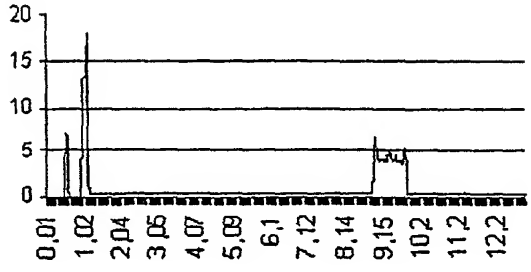
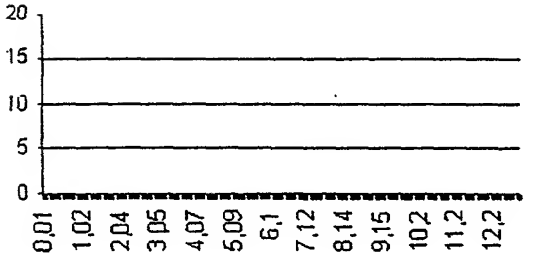
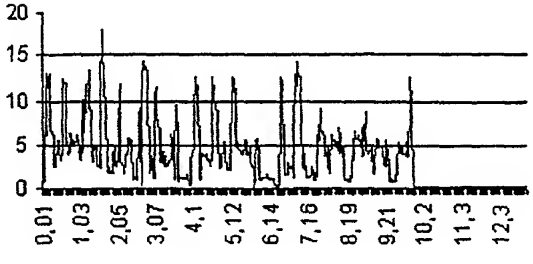


FIG. 4(c)



Bottom-left corner profile

FIG. 4(d)



Bottom-right corner profile

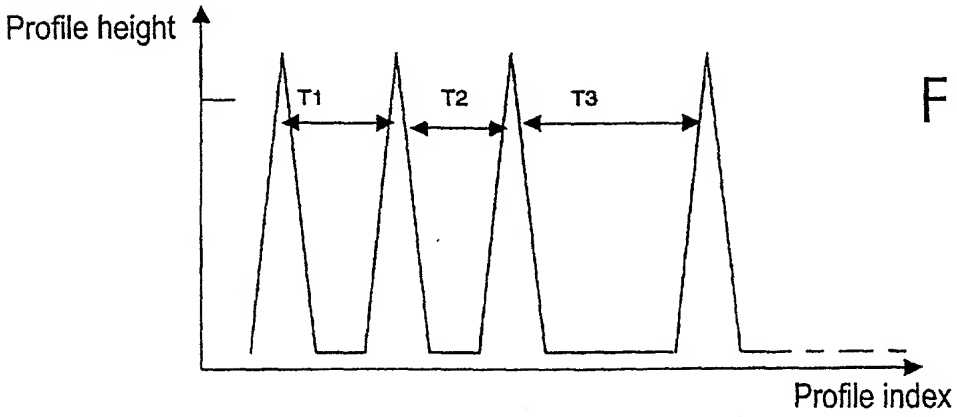


FIG.7

FIG.5

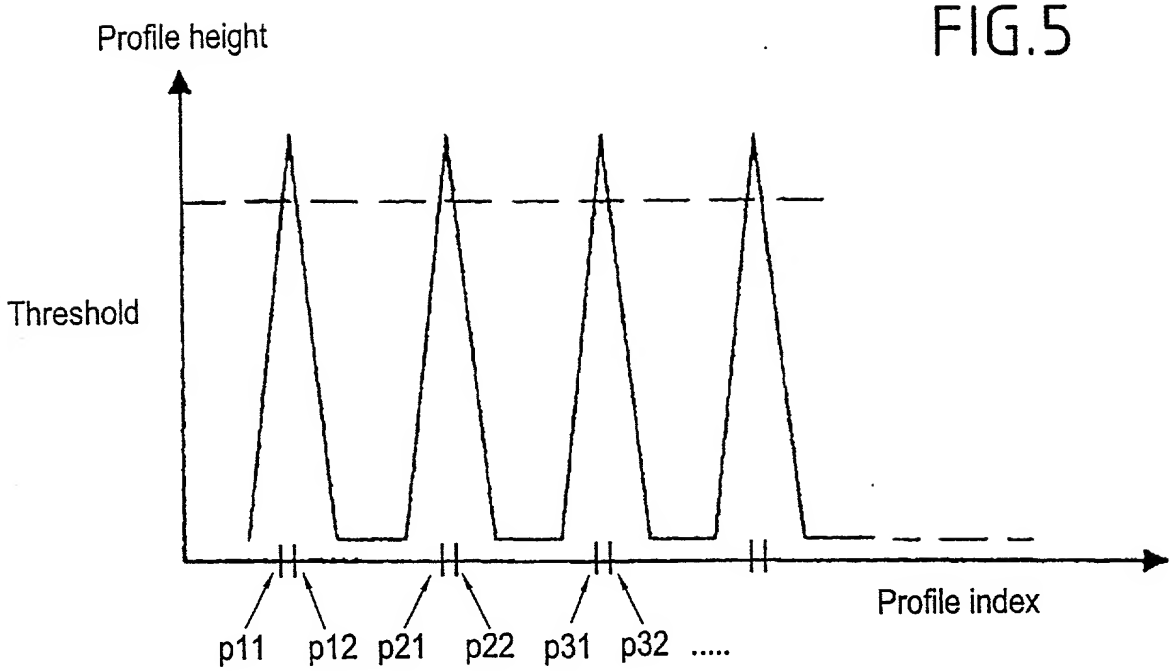

Profile height
Threshold
Profile index
p11
p12
p21
p22
p31
p32
.....

FIG.6

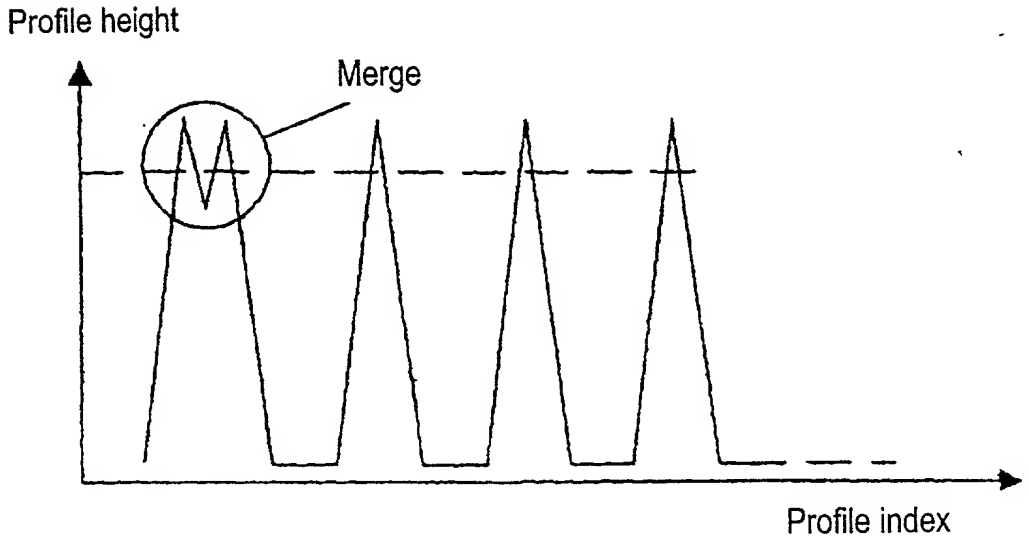

Profile height
Merge
Profile index

FIG.8A

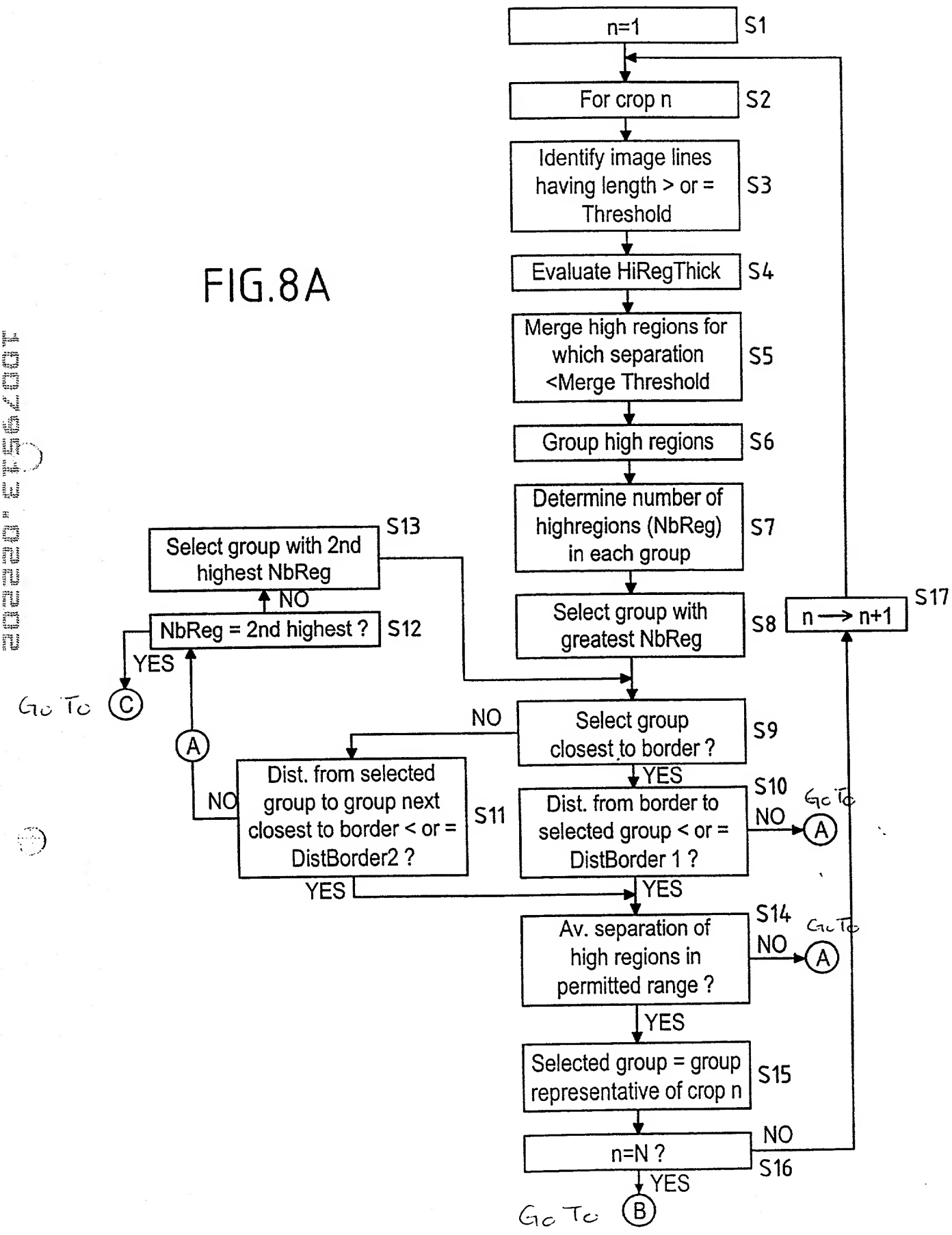
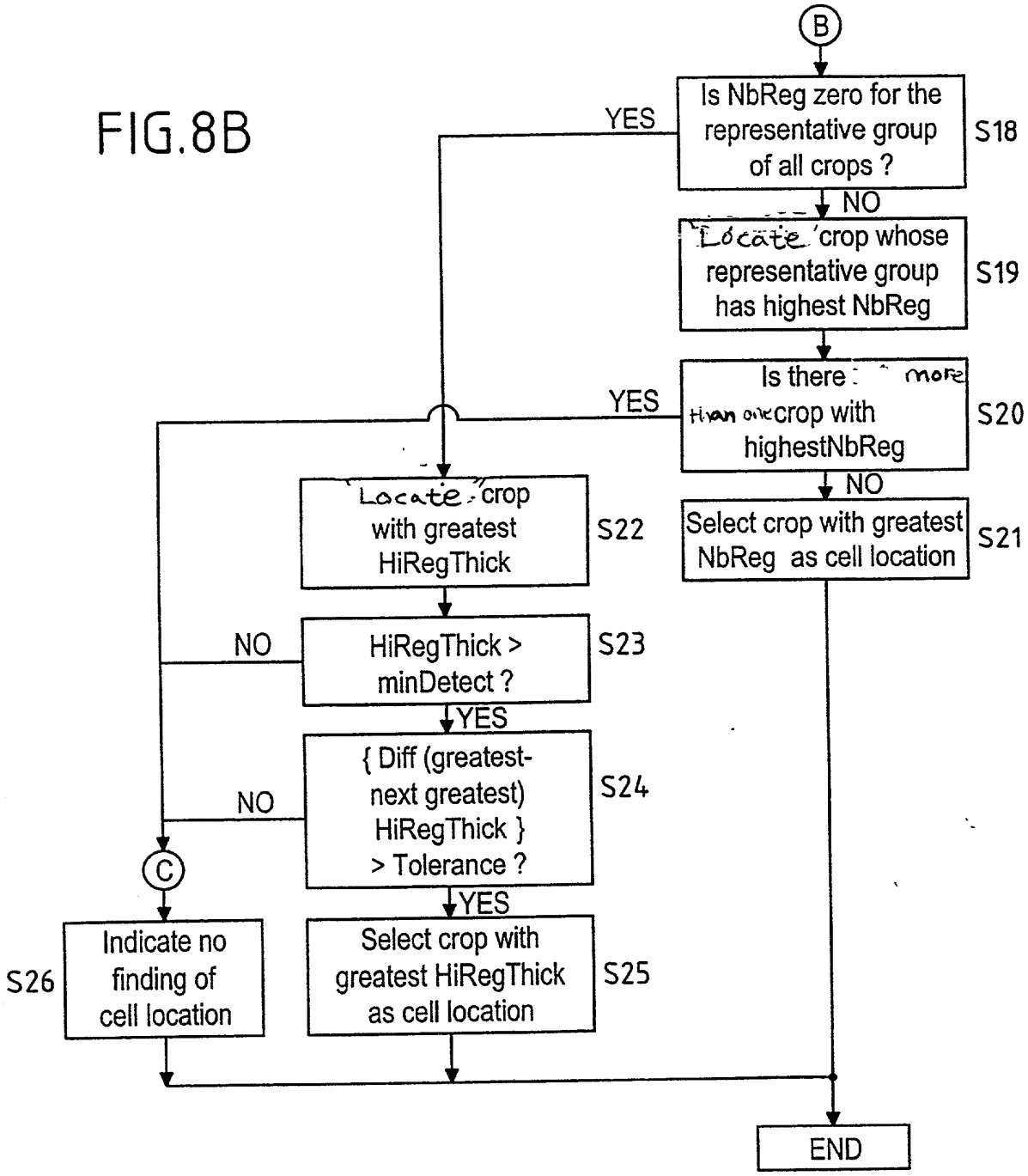

n=1
S1
For crop n
S2
Identify image lines having length > or = Threshold
S3
Evaluate HiRegThick
S4
Merge high regions for which separation <Merge Threshold
S5
Group high regions
S6
Determine number of highregions (NbReg) in each group
S7
Select group with greatest NbReg
S8
Select group with 2nd highest NbReg
S13
NO
NbReg = 2nd highest ?
S12
YES
Go To C
A
NO
Select group closest to border ?
S9
YES
Dist. from selected group to group next closest to border < or = DistBorder2 ?
S11
NO
YES
Dist. from border to selected group < or = DistBorder 1 ?
S10
NO
Go To A
YES
Av. separation of high regions in permitted range ?
S14
NO
Go To A
YES
Selected group = group representative of crop n
S15
n=N ?
NO
S16
YES
Go To B
n → n+1
S17

FIG.8B


B
Is NbReg zero for the representative group of all crops ?
S18
YES
NO
Locate crop whose representative group has highest NbReg
S19
Is there more than one crop with highestNbReg
S20
YES
NO
Locate crop with greatest HiRegThick
S22
Select crop with greatest NbReg as cell location
S21
HiRegThick > minDetect ?
S23
NO
YES
{ Diff (greatest-next greatest) HiRegThick } > Tolerance ?
S24
NO
YES
C
Indicate no finding of cell location
S26
Select crop with greatest HiRegThick as cell location
S25
END

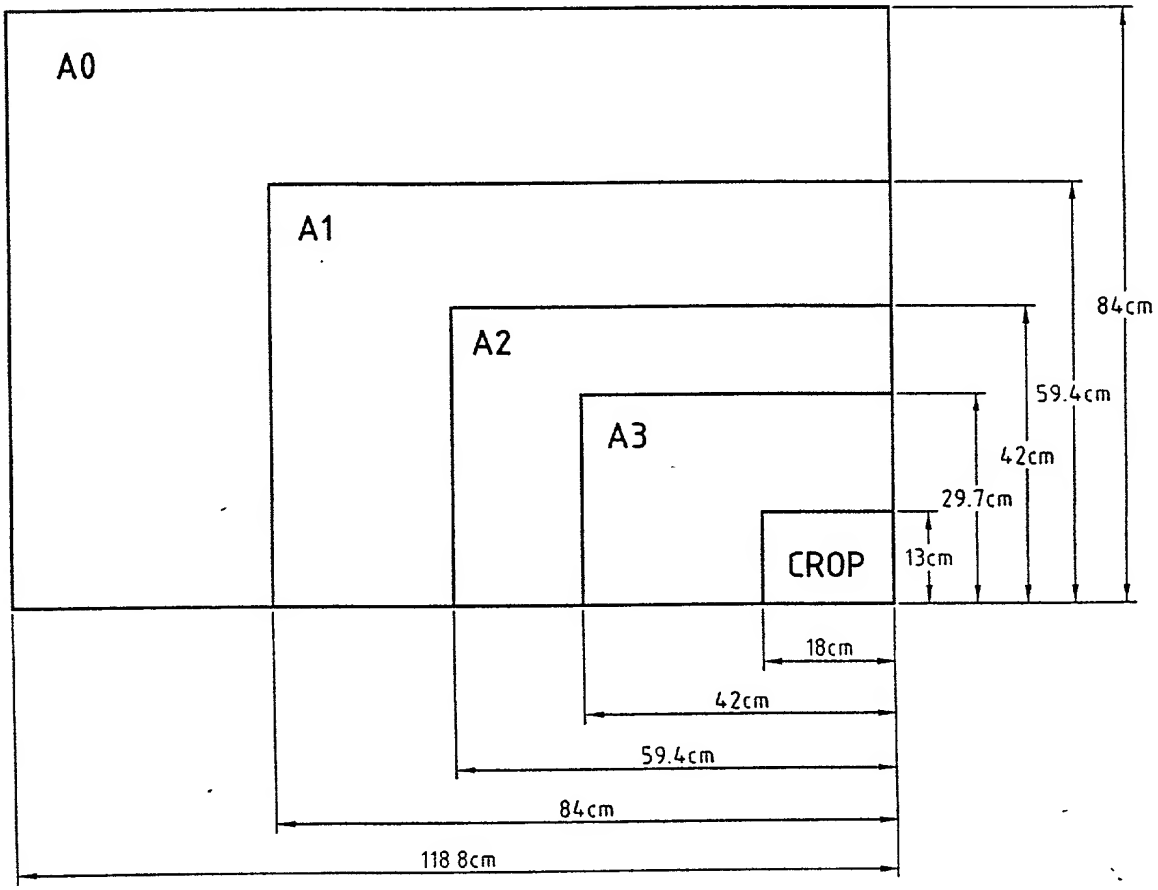
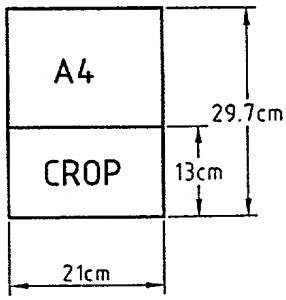

A0
A1
A2
A3
CROP
84cm
59.4cm
42cm
29.7cm
13cm
18cm
42cm
59.4cm
84cm
118 8cm

FIG.9


A4
CROP
29.7cm
13cm
21cm